



**NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF SAFE DRINKING WATER  
TECHNICAL REVIEW FORM**

**GRANULAR ACTIVATED CARBON CONTACTORS  
(N.J.A.C. 7:10-11.15(h))**

\_\_\_\_\_  
Water Purveyor

\_\_\_\_\_  
PWSID#

\_\_\_\_\_  
Municipality

No. of Contactors: \_\_\_\_\_

Modes of Operation:

☐ Series

OR

☐ Parallel

☐ Upflow

OR

☐ Downflow

Material: ☐ Aluminum  
☐ Concrete  
☐ Fiberglass

☐ Stainless Steel  
☐ Other:

Type of Media	Medium Thickness	Effective Size	Uniformity Coefficient
_____	_____	_____	
_____	_____	_____	
_____	_____	_____	

Contactor Diameter: \_\_\_\_\_  
Unit Design Flow Rate: \_\_\_\_\_  
Surface Loading Rate: \_\_\_\_\_

Carbon Volume per Contactor:  
Carbon Mass per Contactor:  
Empty Bed Contact Time:

Sources to Be Served:

Actual or Anticipated Conditions:

Well No.	Capacity (gpm)	Contaminant	Level Found (ppb)	Design Level (ppb)
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	

	YES	NO	N/A
1. Does the design meet the requirements for filtration at N.J.A.C. 7:109-11.14?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is the empty bed contact time not less than 20 minutes?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Are the units capable of being backwashed at a rate not less than 12 gallons per minutes per square foot of medium?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. If the units are being used for both filtration and adsorption, has the estimated time of breakthrough been redetermined to account for the chromatographic effect of frequent backwashing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. For pressure units, are means provided to release excess pressure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Are influent, intermediate, and effluent sampling taps provided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Is the system designed to use virgin carbon?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Is the granular activated carbon bed at least 48 inches deep?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is each unit provided with isolation valves and a drain?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\*\*\*Submit appropriate engineering plans, specifications, reports, etc. to substantiate your answers. \*\*\*

I hereby certify that answers provided herein are accurate and reflective of the project being considered for approval.

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Signature of Engineer  
Professional Engineer's Embossed Seal

Date

N.J.P.E. #

Type or Print Name of Engineering Firm